



**DGA SERIES**  
**EP PARK FLYER**

# P-40 WARHAWK

## Assembly Manual

中文組裝說明書



**No. 4339**

**Specifications:**

Wing Span: 34" (863.6mm)

Length: 29" (738mm)

Wing Area: 226.4 sq. in. (14.6dm<sup>2</sup>)

Weight: 17.5oz. (500g)

Motor: OBL2928/09 recommended

## Warranty

This kit is guaranteed to be free from defects in material and workmanship at the date of purchase. It does not cover any damage caused by use or modification. The warranty does not extend beyond the product itself and is limited only to the original cost of the kit. By the act of assembling or controlling this user assembled kit, the user accepts all resulting liability for damage caused by the final product. If the buyer is not prepared to accept this liability, it can be returned new and unused to the place of purchase for a refund.

## Notice: Adult Supervision Required

This is not a toy. Assembly and flying of this product requires adult supervision. Read through this book completely and become familiar with the assembly and flight of this airplane. Inspect all parts for completeness and damage. Contact Thunder Tiger authorized agent if you find any problem or need tech support.

## INTRODUCTION

With the distinctive painted shark's mouth, P-40 has always been one of the most recognizable single engine fighters of WW2 as well as a rugged dependable aircraft which provided invaluable service to the Allied war effort.

Capture the history of WW2 in a RC flying fighter at your local field. Get in the air and experience Thunder Tiger's replica, the P-40 "Flying Tiger".

## CAUTION

Before beginning the assembly read the instructions thoroughly to give an understanding of the sequence of steps and a general awareness of the recommended assembly procedures.

This P-40 War Hawk is designed for **intermediate to advanced pilots** and it requires assembling and flying skill.

By following these instructions carefully and referring to the corresponding pictures, the assembly of your model will be both enjoyable and rewarding. The result will be a well built, easy to assemble model which you will be proud to display.

## 產品簡介

非常感謝您購買雷虎產品P-40戰鷹電動飛機,由于獨特的鯊魚嘴外形使之成為二戰中最容易被辨認的飛機之一,集穩定與凶猛于一身,為盟軍作出了巨大貢獻.雷虎公司非常榮幸能夠為世界各地的飛行愛好者再度呈現這架飛機的風采.請熟讀組裝前須知確保組裝過程順利.本飛機為中高級者模型愛好者而設計,須具備組裝和飛行技巧.

## Table of contents 目錄

Introduction 產品簡介	2	Wing 機翼	10
Pre-Assembly Notes 組裝前須知	2	Landing Gear 起落架	11
Other Items Required 其他需求配件	3	Cowling&Spinner 槳罩	12
Optional Parts 選購部分	3	Servo 伺服機	13
Tools and Supplies Needed 工具	3	Balance 平衡	13
Parts Drawing 零件圖	4	Decal 貼紙	14
Fuselage 機身	6	Operation Check 操作檢查	15
Tail and Elevator 尾翼	8	Flying 飛行	16
Motor 馬達	9	Radio Movement 操縱指南	18
		Repair 維修	19

## PRE-ASSEMBLY NOTES

### 組裝前須知

1. For all the three versions: OBL, OBL Less Motor and Super Combo, please assemble your model according to this instruction manual. Do not attempt to modify or change your model in any way as doing so may adversely change its flying characteristics. Doing so will be out of warranty.

無刷版套件、無刷版無馬達套件及完成機版共用此組裝說明書,請按照說明書指示組裝,切勿修改以免影響該機原有優異飛行性能。如因自行修改所造成的損壞,不在產品保證範圍內。

2. For Super Combo version, some assembly steps are finished by factory craftsman. We recommend you to read the manual to familiar with the whole plane as well and just skip the assembled steps.

假如您購買完成機則部分組裝步驟已經由工廠完成,您可以跳過這些組裝步驟,然而建議您仍仔細閱讀這些組裝步驟以加深對該機了解。

3. Before you begin please check entire contents of this kit against the parts drawings to be sure that no parts are missing or damaged. This will help you to become familiar with each component.

請先參考零件圖並檢視套件以確認是否有缺件或損壞,這同時讓您進一步熟悉每個零件。

4. If you find that any parts are either missing or damaged, please contact your dealer immediately for replacement. Note: Your dealer cannot accept kits from return if construction has begun.

如果您發現有任何缺件或損壞,請與原購買經銷商或模型店更換。



Remember we have worked very hard to make this model as easy to assemble as possible while still maintaining our high standard of quality. Your assembly of this model is very important and will determine the final flight capabilities of your model, so use extra care and follow the assembly procedures exactly.

請小心組裝因為您的組裝品質將影響該機飛行性能。

### OTHER ITEMS REQUIRED

#### 其他需求配件

**Radio:** You will need at least a 3 channel radio control system with 2 micro servos for your model. Thunder Tiger provides 4CH Sky Master (8417) for your choice.

4動遙控器并配備2個微型伺服機(產品編號:4CH雙杆遙控器ACE8417)



ACE8417



ACE8117

**BLC-12:** ACE ESC-12 (P/N ACE8026) with BEC for controlling the power of your model as well as eliminating the need of a separate radio battery. The BEC (Battery Eliminator Circuitry) in this controller will automatically turn off the power to the motor when the battery reaches a factory present discharge level leaving about 10 minutes of flight time for the radio system.

速控器12A, 並含有BEC及低電壓斷電功能(產品編號ACE8026)。

**Battery:** We recommend the use of a 8 cell 9.6V 600mAh AAA size NIMH battery. (P/N ACE2945)

建議使用9.6V 600mAh AAA size 鎳氫電池 (產品編號 ACE2945)。



BLC-12



**Charger:** You will need a quick charger to charge your power battery. We recommend our economical DC Quick Field Charger. (P/N ACE 2626)



建議使用快速直流充電器, 12V輸入, 900mAh輸出(產品編號P/N ACE 2626)。

**Super Combo Version contains radio system, BLC-12, Battery and Charger.**

如購買完成機, 則含有以下各配件: 遙控器、速控器、電池、充電器。

### OPTION

#### 選配零件

AcePower Lipo Battery 1050mAh 3S1P 11.1V (P/N 2804)

The AcePower Lipo battery is a high discharging rate battery which provides continuous discharging rate at 15C and the burst is up to 20C(5~10 sec).

Note: Lipo battery is extremely dangerous, always use care when charging or discharging.



鋰電池 (P/N 2804), 當充放電時請慎使用, 充電電流請勿超過1A。

### TOOLS AND SUPPLIES NEEDED

#### 組裝需求工具

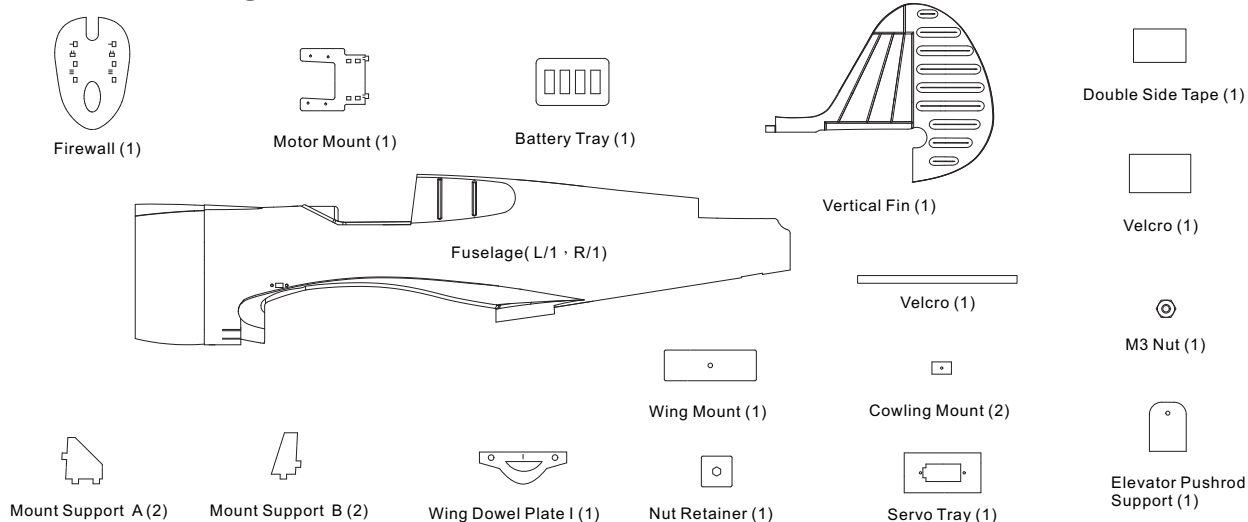
Mixing Stick for Epoxy	攪拌棒
Medium Grit Sandpaper	砂紙
Rubbing Alcohol	工業用酒精
Paper Towel	紙巾
Hobby Knife	美工刀
Ruler	尺
Pen, Pencil or Marker	鉛筆/奇異筆
Phillips Screw Drivers	小螺絲起子
Curved Scissors	剪刀
Nose Plier	尖嘴鉗
Mylar Tape (3/4" in width)	馬拉膠帶(寬3/4", 19mm)
Drill Bit 5/64"(2mm)	鑽頭5/64"(2mm)
Drill Bit 7/64"(2.6mm)	鑽頭7/64"(2.6mm)
Drill Bit 1/8"(3mm)	鑽頭1/8"(3mm)

# PARTS DRAWING

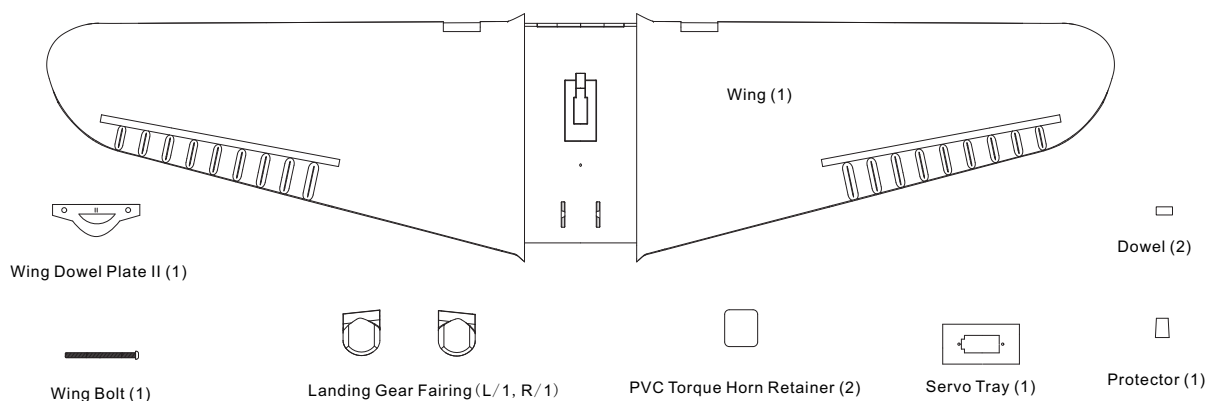


Open the box and check that you have all the parts as shown below.

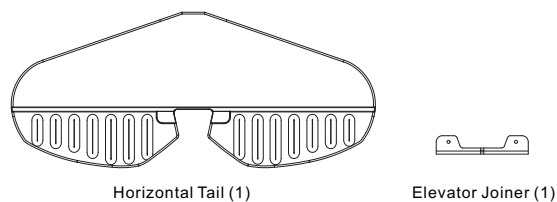
## AS6501 Fuselage



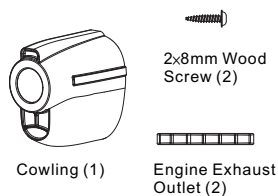
## AS6502 Wing



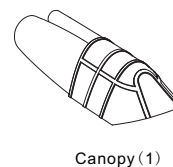
## AS6503 Horizontal Tail



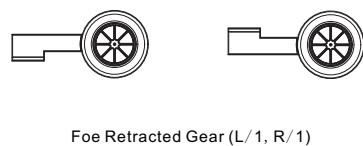
## AS6504 Cowling



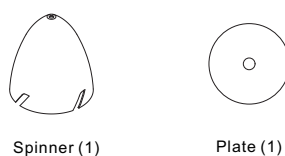
## AS6505 Canopy



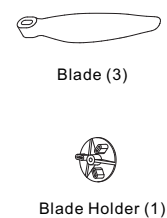
## AS6506 Foe Retracted Gear



## AS6507 Spinner

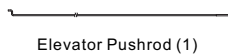


## AS6457 3-Blade Propeller



**If anything is missing please contact your dealer.**

**AS6509 Pushrod Set**



Elevator Pushrod (1)



Aileron Torque Rod (L/1,R/1)



Aileron Pushrod (2)



Clevis A (1)

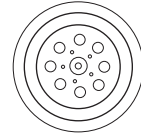


Clevis B (2)



Torque Rod Connector (2)

**AS6375  
Ultralite Wheel**



Wheel (2)

**AS6412 Tail Gear**



Tail Gear Mount A (1)



Tail Gear Mount B (2)



Tail Gear (1)



Collar (1)

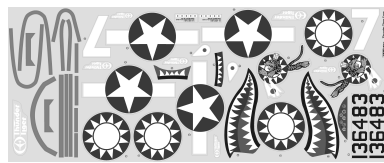


3x3mm Set Screw (1)



Tail Wheel (1)

**AS6511 Decal**



Decal (1)

**AS6454  
Spinner Adaptor**



M5 Nut (1)



3x3mm Set Screw (1)



Adaptor (1)

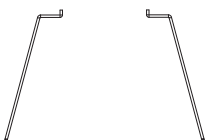


Washer (1)



2. 6x30mm Screw (1)

**AS6510 Landing Gear**



Landing Gear (L/1,R/1)



Landing Gear Mount A (2)



Landing Gear Mount B (2)



Landing Gear Mount C (2)



Hex Wrench (1)



3x3mm Set Screw (2)



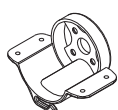
Collar (2)

**AS6512  
WW II Pilot**



WW II Pilot (1)

**AS6380 OBL Motor Mount**



OBL Motor Mount (1)

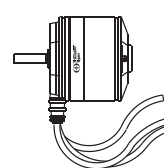


3 x 6mm Sink Screw (4)

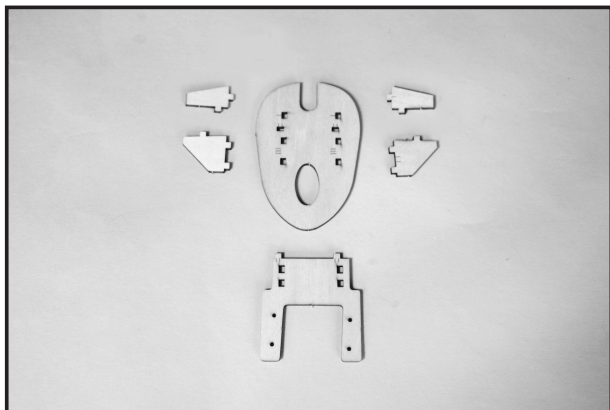


2.6 x 8mm Wood Screw (4)

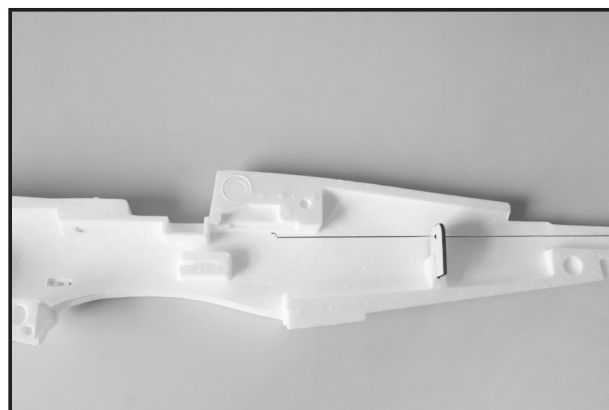
**No. 2354 OBL 2928/09  
(Only comes with 4339-K21)**



Outrunner Brushless Motor 2928/09 (1)



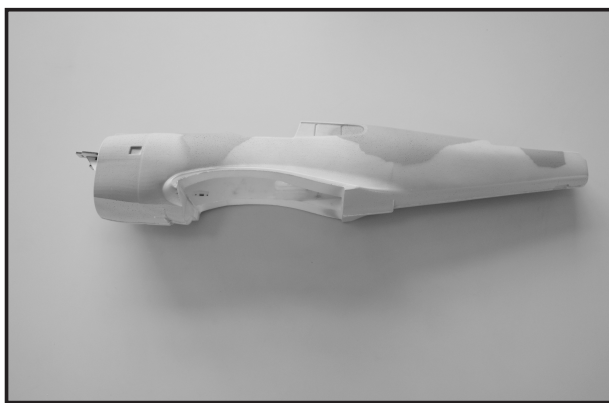
1. Locate firewall, motor mount and mount supports.  
安裝防火牆、馬達固定座及支撐。



4. Insert pushrod through the pushrod support then epoxy the support and firewall in place of right fuselage.  
粘入防火牆及拉杆支撐板于右機身并插入拉杆。



2. Epoxy the motor mount and supports on firewall.  
將動力組架、動力組支撐粘于防火牆。



5. Next lightly epoxy the two fuselage halves together. The enclosed Epoxy will be cured in five minutes and working time is only 3 minutes. You will have to apply epoxy quickly or change to 12- minute epoxy for longer working time.  
如圖粘合兩片機身。

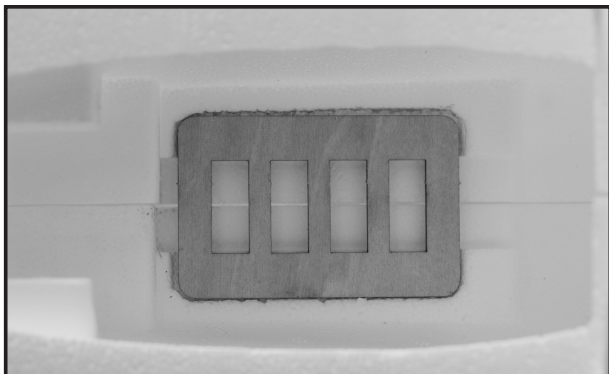


3. Trial fit the firewall assembly in fuselage.  
將粘合後的防火牆試裝入機身。

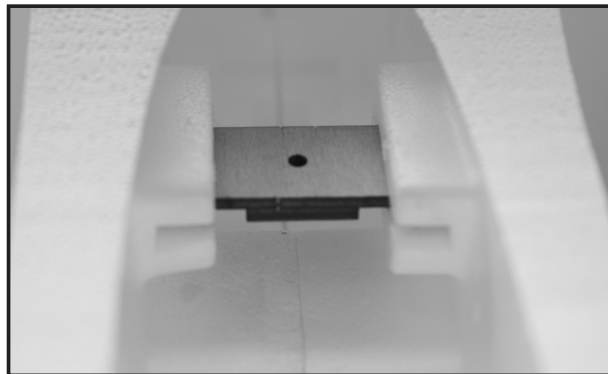


6. Locate the cowling mounts then epoxy the mount in place.  
依圖粘合引擎罩固定塊。

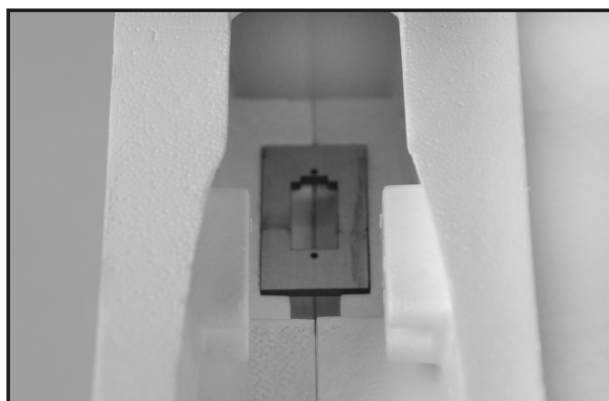




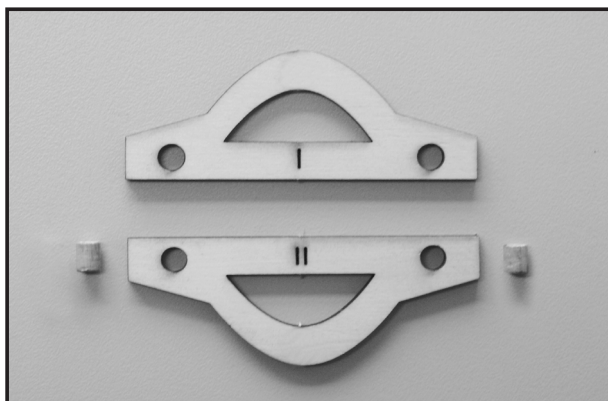
7. Locate the battery tray. Epoxy the battery tray assembly in fuselage.  
將電池固定板粘入機身。



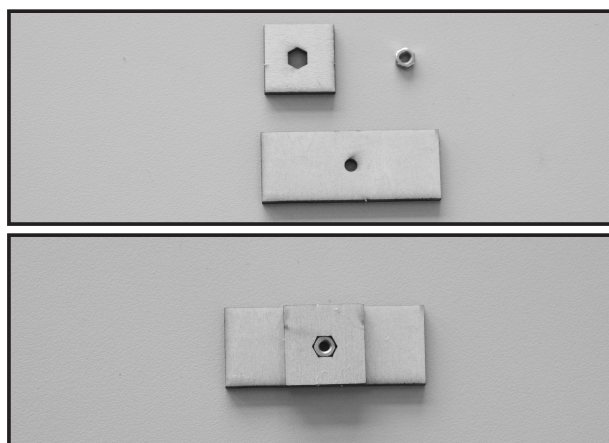
10. Epoxy the wing mount assembly in the fuselage. Note the mount is all the way in.  
將粘合後的機翼螺帽固定板粘入機身。



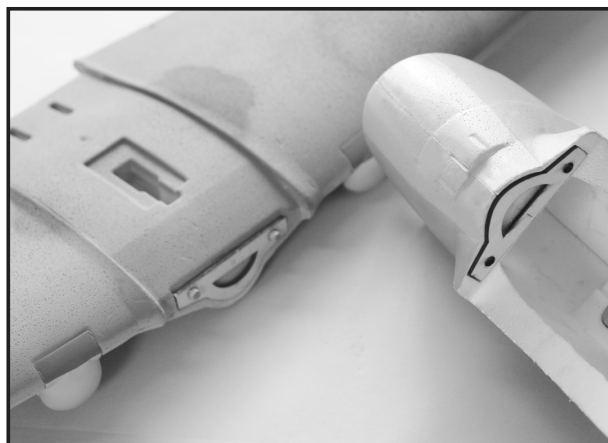
8. Epoxy elevator servo tray in place. Note the orientation of the servo tray.  
如圖粘入升降翼伺服機固定座,注意方向。



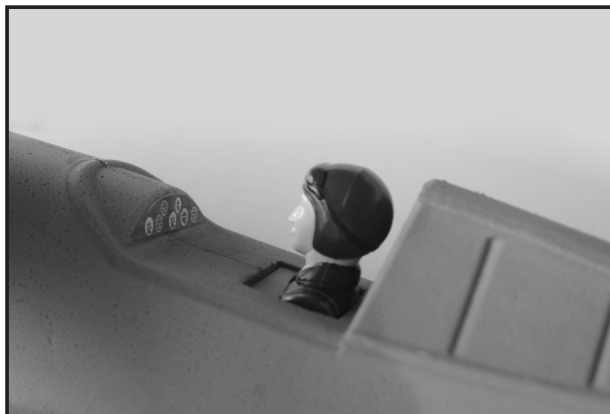
11. Locate the dowels, wing dowel plate I and II.  
如圖取出短圓木棒與機腹連接板



9. Locate the wing mount, nut retainer and M3 nut. Glue the retainer on wing mount then press M3 nut in place. Make sure the M3 nut is centered and secured. Apply CA may be necessary but be careful not on thread.  
將機翼固定板、M3螺帽、螺帽固定板如圖粘合。

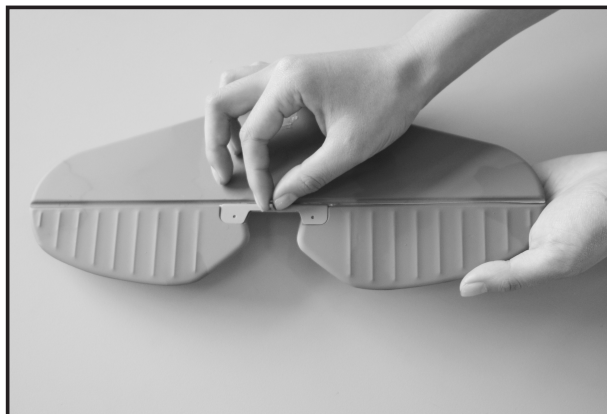


12. Epoxy wing dowel plate I in the front fuselage and wing dowel plate II on the front center wing, then glue the two dowels on wing dowel II. (Note the orientation of wing dowel I and II, make sure they are fit properly.)  
以環氧樹脂膠合機腹連接板I與機身,機腹連接板I于機翼,然後膠合短圓木棒于機腹連接板II上。

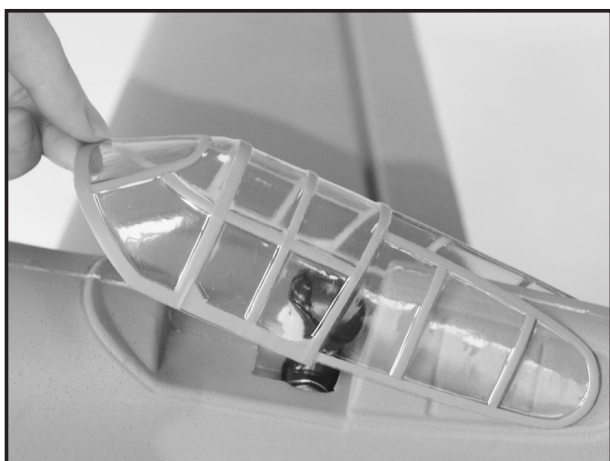


13. Apply the instrument panel decal and the pilot in place.

安裝儀表盤貼紙及人像。

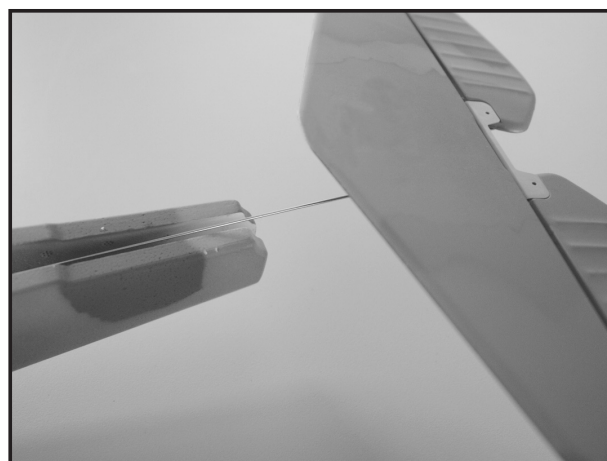


16. Trial fit the joiner in place next apply epoxy and glue it firmly in place. It will be easier to bend two elevators then slide the joiner on the elevators. 以環氧樹脂膠合平尾搖臂。



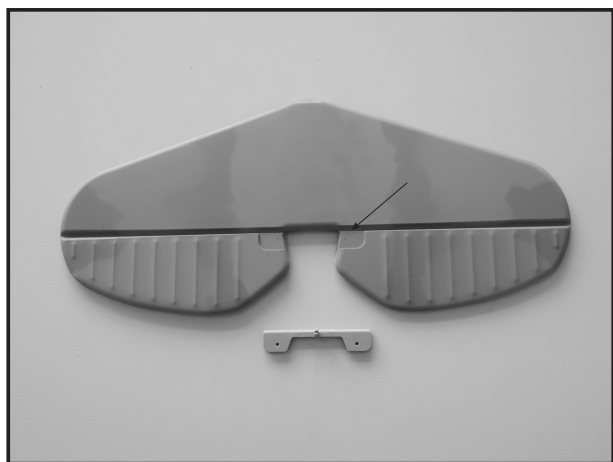
14. Epoxy the canopy in place.

如圖粘合機艙罩。



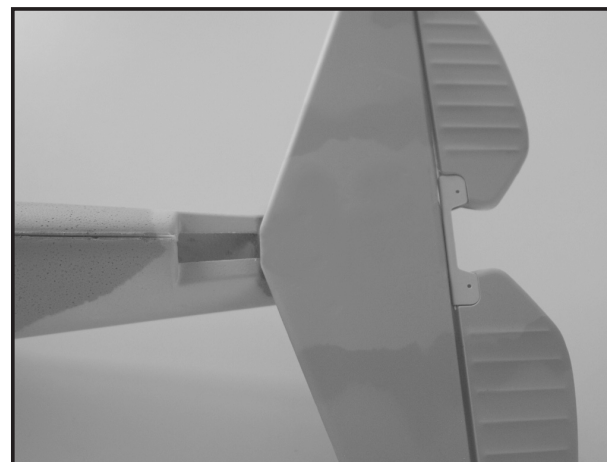
17. Locate the elevator pushrod, thread the clevis then snap onto the elevator joiner.

如圖安裝升降翼鋼絲,安裝拉杆連接頭與平尾搖臂連接。



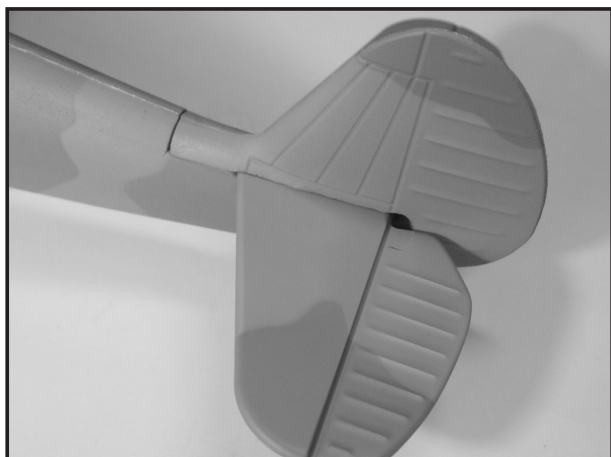
15. Cut a slot at the hinge line for installation of elevator joiner.

如圖在水平尾翼上切開一個槽以便裝平尾搖臂。

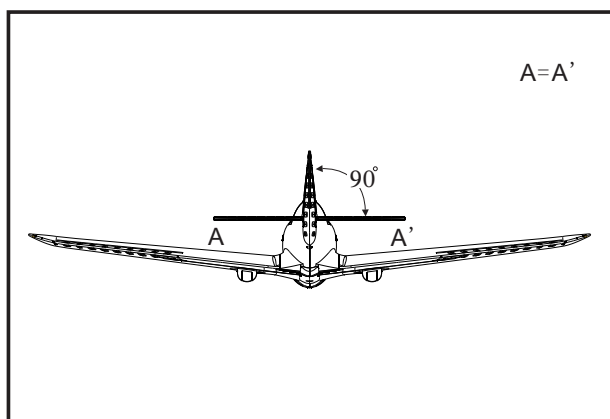


18.Center and epoxy the horizontal tail in place.

以環氧樹脂膠合水平尾翼于機身。

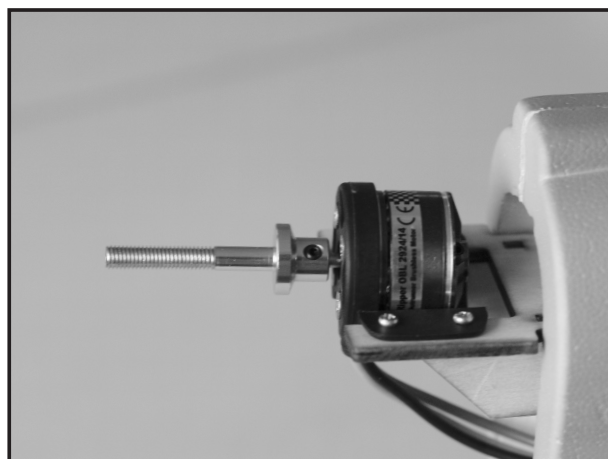


21. Install the brushless motor as shown.  
如圖安裝無刷馬達。



19. Epoxy the vertical fin in place and make sure it is perpendicular to the horizontal tail.

以環氧樹脂膠合垂直尾翼,注意平尾與垂尾相互垂直。

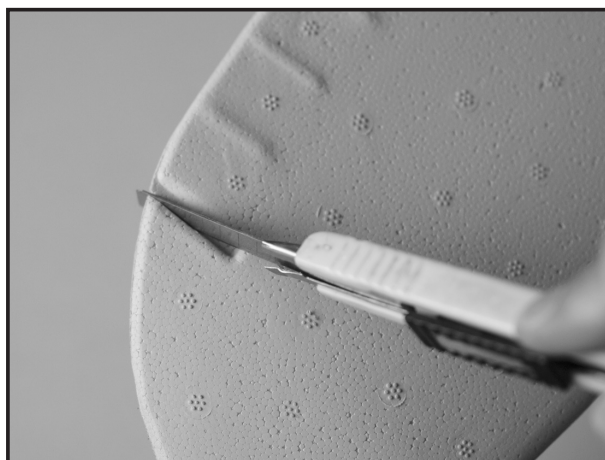


22. Install power unit on the motor mount with four 2.6x8mm wood screw, then secure the adaptor with 3x3mm set screw.  
使用2.6x8木螺絲將馬達動力組在馬達座上,用3x3mm無頭內六角螺絲固定螺槳連接頭。



20. Locate brushless motor, plastic motor mount and 3x6mm sink screw.

取出馬達,無刷馬達座及3x6mm沉頭螺絲。

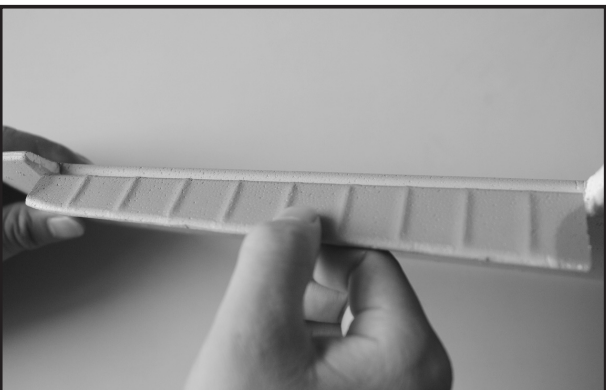


23. Carefully cut two ends of aileron.  
小心切開副翼兩端。

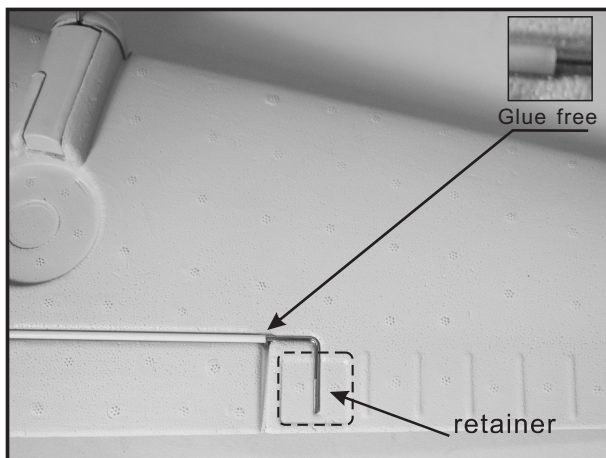




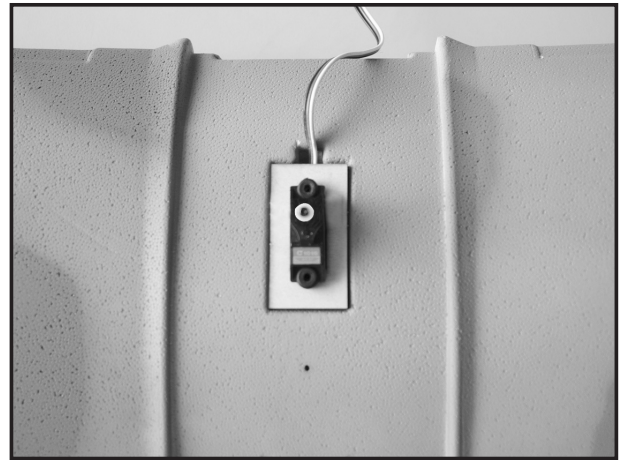
24. Bend the aileron down and apply tape (3/4" wide suggested) on hinge line as indicated. You may rub the hinge area back and forth with a piece of cloth, this is to smooth the area and increase the tap adhesion.  
如圖彎折副翼并以透明膠帶固定。



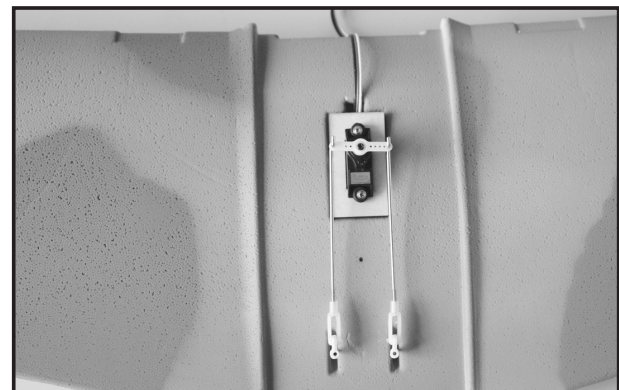
25. Carefully flapping aileron and make sure it move freely but will not come off and tape is sticky enough to hold the aileron in plane.  
上下擺動副翼使之擺動自由而不至于脱落。



26. Epoxy the torque rod and torque rod retainer in place. Same procedure on the other one.  
以環氧樹脂膠合副翼鋼絲于機翼。



27. Secure the servo on the aileron servo tray, then epoxy the servo tray assembly at the aileron servo well.  
將副翼伺服機裝入伺服機座,以環氧樹脂膠合伺服機座于機翼上。



28. Locate aileron pushrods and clevises, thread clevis on the pushrod. Connect the Z-bend end of pushrod to the servo horn and snap the clevis on the connector. The first hole of servo horn is suggested.  
將副翼鋼絲裝入伺服機,推薦將鋼絲插入搖臂第一個孔位。

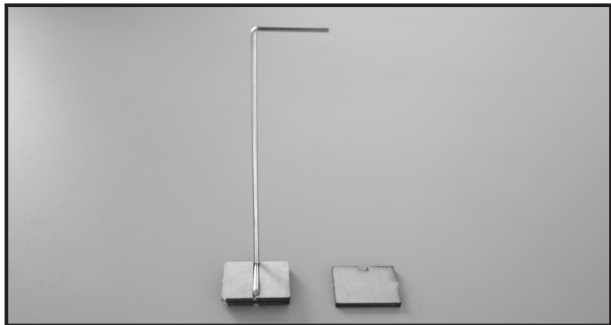


### Landing Gear 起落架

Before assembling the landing gear you will have to decide to install the fix gear or dummy retract gear for less drag.

您可以選擇安裝偽裝式收腳架。

#### <Fix Gear 固定式輪架>



29. Locate landing gear mount and sandwich the mounts with the wire as shown. Check next step and note the orientation of the mount.

如圖粘合起落架固定板與起落架夾板。



30. Epoxy the landing gear on the bottom wing at landing gear well.

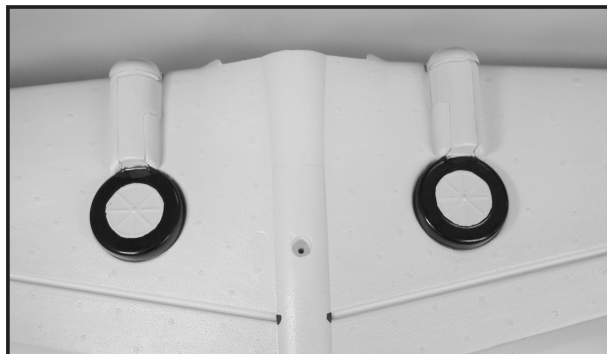
以環氧樹脂膠合起落架于起落架孔。



31. Install light wheel and secure the collar with set screw. Next trim the vacuum formed foe retract and install in place.

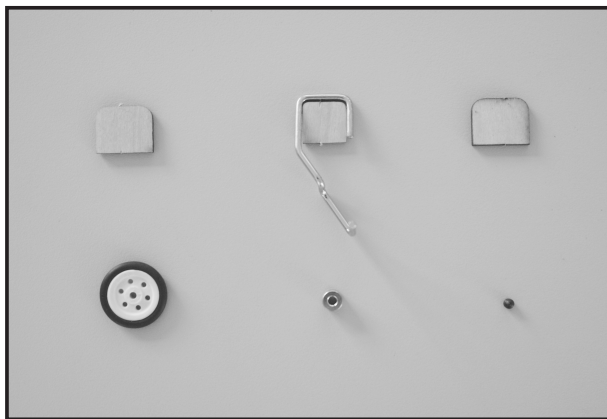
如圖安裝起落架輪子,并以無頭螺絲固定輪檔。其次修剪并安裝真空件與輪架處

#### <Dummy Retract Gear 偽裝收腳架>



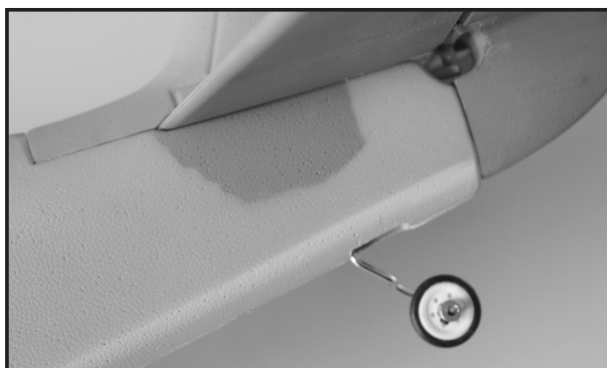
32. For less drag or user desired speed flight, the foe retract gear is a good choice. Trim the vacuum formed foe retract gear as shown and locate them at the bottom wing.

如圖安裝偽裝收腳架。



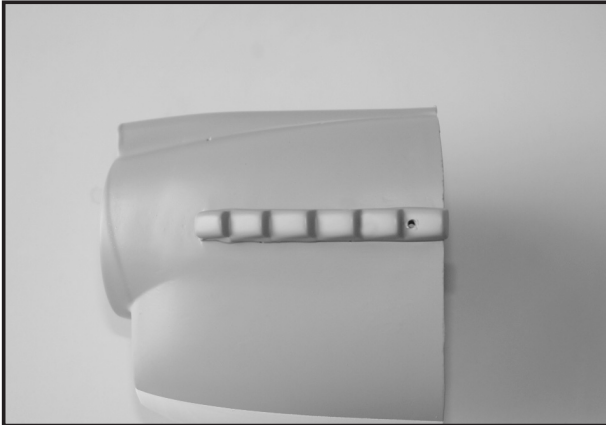
33. Locate tail gear mounts, tail gear, collar, set screw and tail wheel. Epoxy the tail gear ply plates together to make a complete tail assembly.

組裝尾輪各部分。



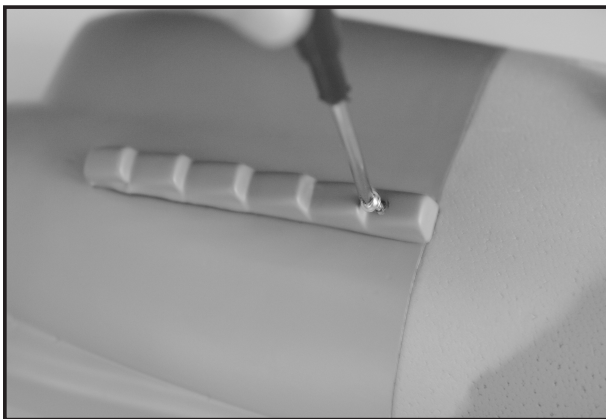
34. Install the tail gear with epoxy in the aft section of the fuselage.

以環氧樹脂膠合尾輪于機身。



35. Trim cowlings and engine exhaust outlets along with the molded line, then epoxy the engine exhaust outlets on the cowling. Next drill 2mm hole at the molded dot.

如圖修剪引擎罩與偽裝排氣孔後將偽裝排氣孔以環氧樹脂膠合于引擎罩并于模點上鑽2mm孔。



36. Trial fit the cowling to fuselage then secure with two 2x8mm wood screws.

以所附之2x8mm木螺絲將引擎罩固定于機身。

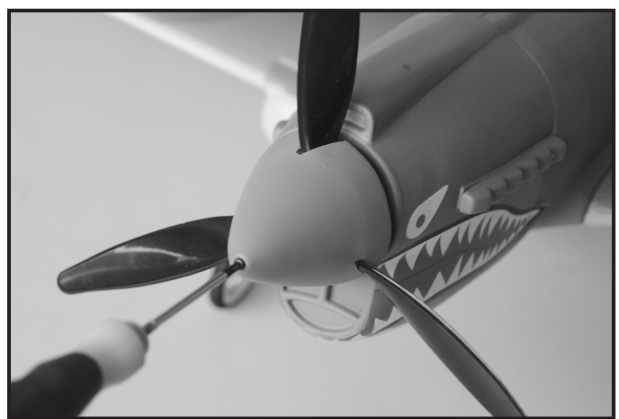


37. Install the 3 blades on the blade holder as shown.  
將螺旋槳葉裝入槳座上。



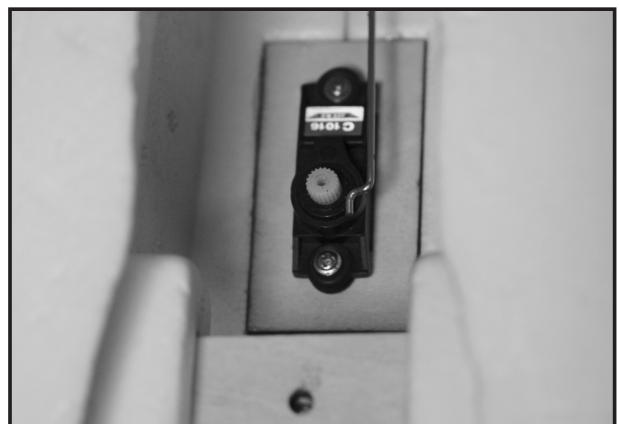
38. Attach the clear round plate and the aluminum washer then secure the propellers with M5 Nut.

如圖裝上3葉螺旋槳。



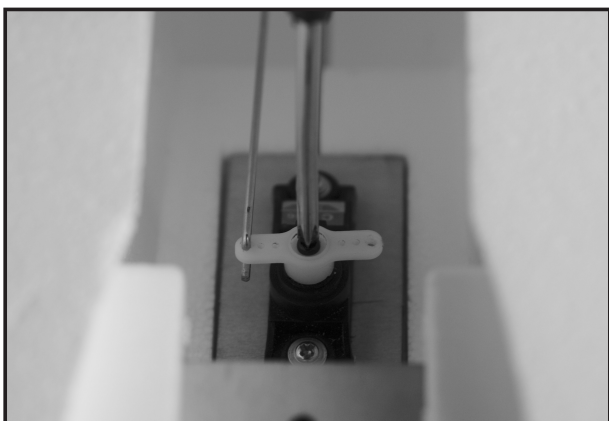
39. Trim spinner along with the molded line, drill 2.6mm hole at the nose point then secure the spinner with 3x15mm sink screw.

如圖裝上槳罩,以2.6x15mm螺絲固定。

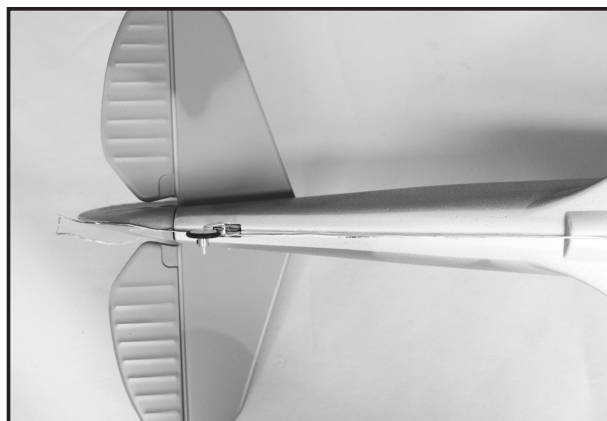


40. Secure the servo on the elevator servo tray, then epoxy the servo tray assembly in the fuselage.  
Note: Adjust the position of servo tray properly and set the pushrod on servo tray.

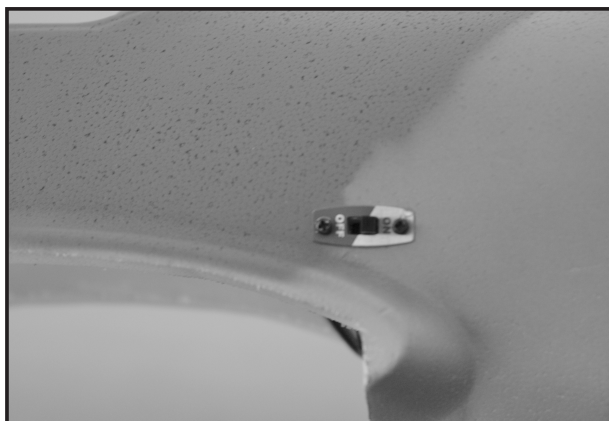
將升降舵伺服器裝入伺服器座,以環氧樹脂粘合同服機座于機身並將升降舵鋼絲置于伺服器座上。



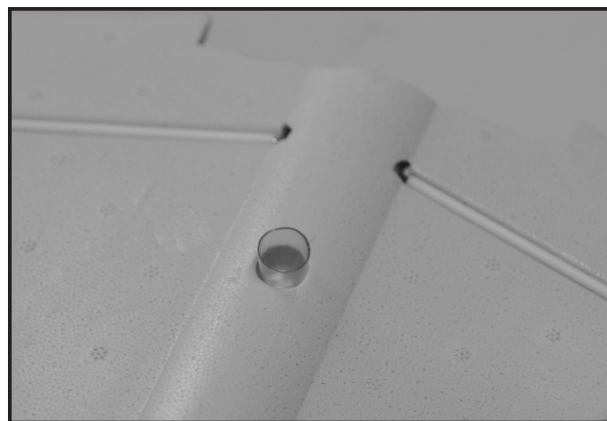
41. Thread the pushrod to the servo horn and secure the servo horn on the servo when servo is in neutral position.  
裝入升降舵鋼絲并請確認伺服機之中立點後將伺服機擺臂鎖上。



44. Route the antenna through bottom fuselage to the tail.  
將接收機天線從機身底部穿出至機尾,并以膠帶固定。



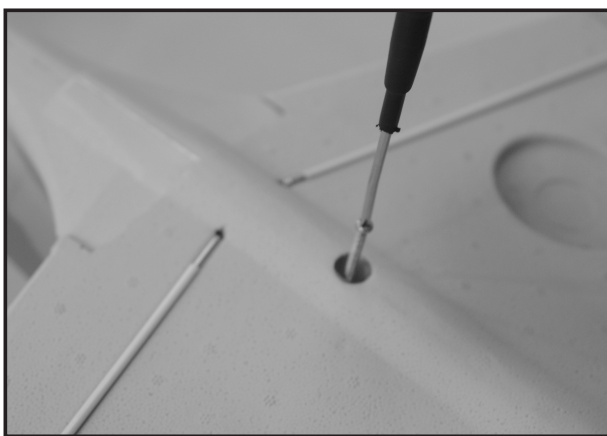
42. Install the switch of the electric speed controller. Do not over tighten the screw as it may crush the Styrofoam.  
裝上速控器開關,注意切勿施力過當,損壞機身。



45. Insert the wing bolt hole protector all the way in then drill 3mm hole.  
如圖插入機腹固定套并鑽3mm的孔。



43. Install the speed controller with double side tape. And secure the battery and receiver with velcro. Connect all servo wires to receiver. Route the antenna through bottom fuselage to the tail.  
用双面胶固定速控器并用魔术胶带固定电池和接收机。將伺服機線接入接收機,接收機天線從機身底部穿出至機尾,并以膠帶固定。



46. Secure the main wing on fuselage with 3x50mm bolt. Please refer to the next page to apply all decals.  
以3x50mm螺絲固定機翼于機身,參照下一頁安裝貼紙。





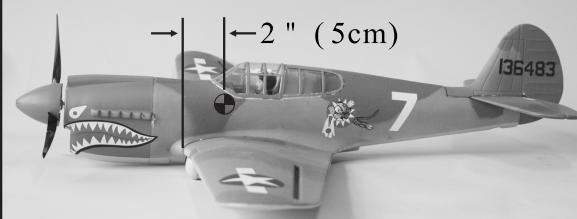
Congratulations! You're done, now your P-40 Warhawk is almost ready to fly. Please do the operation check of all devices as well as the control throw and balance before you go to fly. All Thunder Tiger staffs hope you enjoy flying your new P-40.

恭喜您!可以試飛您的愛機了。

Refer to the photos and apply all decals.

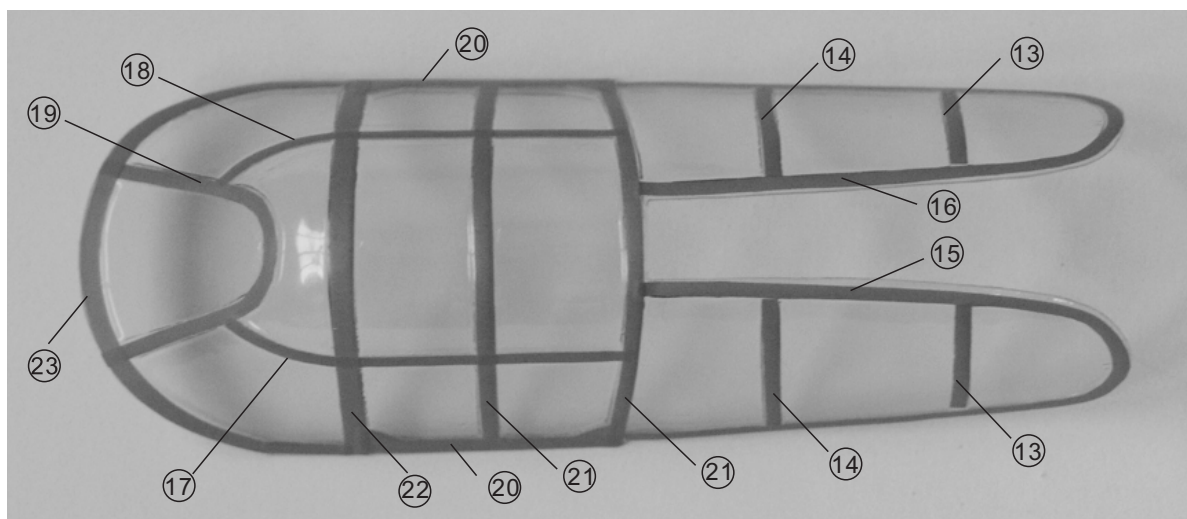
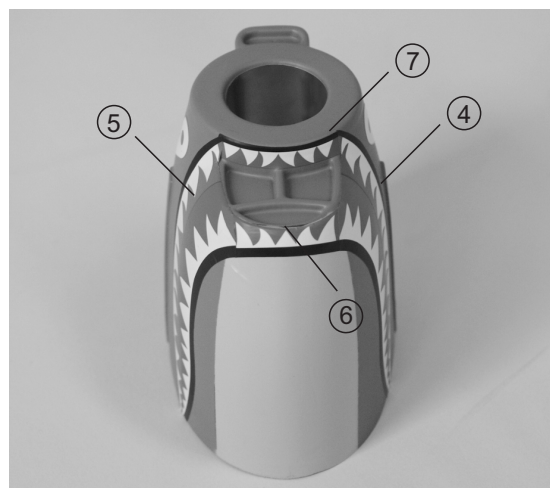
如下列圖示貼上貼紙。

## BALANCE



It is important to balance the plane to the correct C. G. before you fly. The Balance point is 2" (5cm) from the leading edge at the wing root.

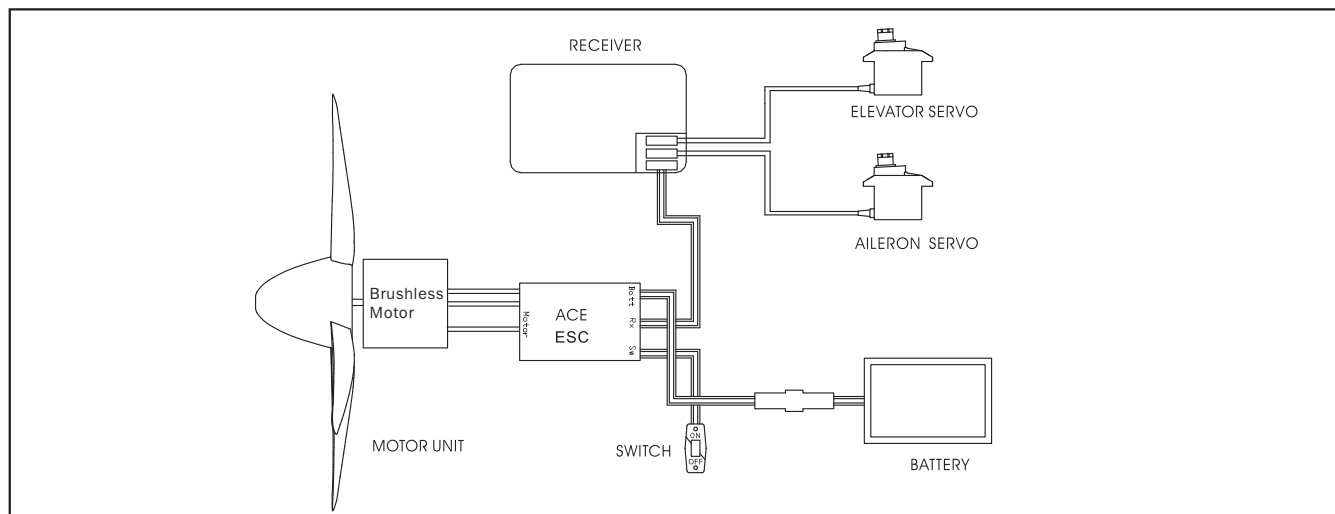
重心位置距前緣5公分處,可前後加重以取得平衡。



Apply the frame decal sequentially.

請按順序貼上飾條。





## Operation Check

### 操作檢查

1. Install eight AA batteries in the transmitter, refer to the instruction manual of radio system.

參考遙控器說明書安裝電池與發射機。

2. Review the illustration to become familiar with your radio components. Following are description of these components.

請進一步了解電結構圖。

■ **ESC:** This device controls power to the motor unit. It will cut-off the battery's voltage when it starts to drop.

速控器：控制馬力輸出或馬達轉速，當壓降至某電壓時能自動斷電。

■ **Receiver:** Receives the radio commands from the transmitter and send them to the servos which converts the command to motion which, in turn, moves the aileron or elevator.

接受機：接收發射機訊號並解碼至伺服機以便控制各舵面。

■ **NiMH Battery:** Rechargeable battery pack that provides power to the motor unit and radio system.

鎳氫電池：為充電式電池並提供所有機電用電。

■ **Motor Unit:** Contains a DC electric motor, a gear drive, and a propeller that provides the thrust for the airplane.

馬達動力組：含直流馬達、減速齒輪組及螺旋。

3. Turn the transmitter on and then the receiver and refer to illustrations in page 18 (Always turn transmitter on first then the receiver and turn receiver off first then the transmitter.)

先打開發射機然後再開接收機並依照下列方式檢視控制舵面。

■ Move the right stick to right and make sure right aileron moves up.

右搖杆朝右并確認右副翼朝上。

■ Move the right stick to left and make sure right aileron moves down.

右搖杆朝左并確認右副翼朝下。

■ Move the right stick upward and make sure the elevator move down.

右搖杆朝上并確認升降舵朝下偏擺。

■ Move the right stick downward and make sure the elevator moves up.

右搖杆朝下并確認升降舵朝上偏擺。

Check for the proper amount of throw and make sure the aileron and elevator are in neutral position when stick and trim levers are in the center.

檢視舵量是否與圖示相同並確認搖桿及微調桿於中立點時舵面齊平。

4. Hang the airplane and throttle up the stick. The motor unit should come on. Make sure the propeller is trying to pull the airplane forward. Throttle down or turn off the switch to stop the motor.

抓著飛機並將油門搖柄上推以確認馬達推力。油門搖柄往下推或關掉開關以停止馬達。

After you check the movement and balance then you are now ready to go flying!

各項操作檢查完成后，您可以試飛您的愛機了！

## Flying 飛行檢查

If you are a beginner, you should have a flight instructor to teach you how to fly the P-40 Kittyhawk. Like a real airplane, you must have an understanding of how to fly the model before launch, or you will probably not be successful. Check at your hobby shop or contact [www.modelair-craft.org](http://www.modelair-craft.org) for flying clubs in your area.

飛行前請了解遙控器操作及飛行原理並建議您尋求其他玩家指導以期能成功完飛並得到飛行樂趣。

### Pre-Flight Checklist 飛行前檢查

Choose a calm day for your first flight. Never fly in winds over 10 mph. Also choose an open field with no obstacles or people.

選擇無風天氣來做首航，一般飛行時速切勿超過 5 公尺每秒。並選擇開闊無人或障礙物的區域飛行。

- Full charge the receiver battery.

飛行前請先充飽電池。

- Make sure there are no other pilots operation on the same channel ( frequency ) as you have. If you turn your radio on while the guy is flying with the same frequency then you will cause him to crash.

開啟遙控器開關請先確認無人使用與您相同的頻率。

- Do range check ( 50 ft. with the antenna collapsed ).

飛行前與地面檢測遙距天線不拉出 20 米距離操作正常。

### Take-off 起飛

- A proper hand-launch of airplane is necessary for flight. It must be launched into the wind with a firm toss. The airplane must be tossed level. It should never be thrown upward or it will stall and crash.

逆風水平推出飛機，切勿朝上以免失速墜機。

### Flight 上空飛行

- Let the airplane climb out gradually and gently until it reaches a comfortable cruise altitude at full flight speed. Always keep the airplane upwind of yourself and within a reasonable distance so you can see what it is doing. Remember, when the plane is coming toward to you, when you move the stick to the right, the airplane will roll to left from your point of view. This is the hardest thing to learn. Initially, you can keep your body pointed in the same direction as the airplane and look over your shoulder. That helps.

起飛達 10 米安全高度後則始可轉向。若飛機朝您的方向飛來則注意方向舵操控為反向。盡量在上風處飛行。切勿飛行太遠以免無法辨識。

- Usually, only small stick movements are required. Try to keep your flying smooth. Use elevator to keep the airplane at the desired altitude. You can turn the plane by bumping small amount of aileron and then return to neutral. After a while, coordinate your turns with the elevator. Feeding some up elevator to maintain the turn at the same altitude.

飛行時請輕微操作搖桿切勿緊張而大幅搖動搖桿。

盡量保持飛行平衡。

- If the plane tends to roll one way or the other use the trim lever on the control stick to neutralize the flight. Same thing applies if the plane wants to climb or dive.

若在飛行時操作側滾，快速拉起或俯衝等高難度動作時，請使用微操作搖杆來保持飛行平衡。

- You can expect 4-5 minutes of “ power-on ” flight. You should always maintain enough altitude so you can set up a landing approach when the auto-cut off device turns the motor off and you begin the glide.

約 4-5 分鐘飛行後準備斷電降落，請勿飛行太遠。

### Landing 降落

- You will have to set up the landing approach before motor cuts-off. Always try to land into the wind. Do not feed in too much up elevator as the plane will stall and may crash.

模擬降落航道練習降落並注意必須逆風降落。

- Just before touchdown, “ flare ” the plane by adding up elevator. The plane should slow down even more and come in for gentle landing. Don't add too much elevator too soon!

如馬達斷電切勿緊張，維持飛行平穩為先，如有必要稍給下舵飛機仍有速度往前飛。接近地面約 1-2 米時再給點升舵拉平機頭。

- Walk over to the plane and turn off the ESC switch on the plane, then the transmitter switch.

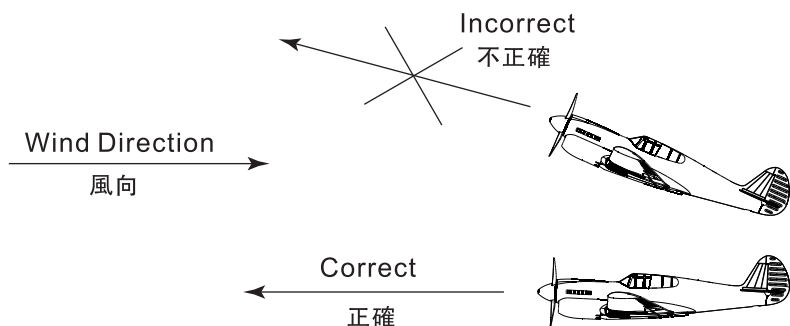
降落後先關掉開關再檢查有無損傷及推拉桿有無脫落。

- Remove the batteries and let them cool off before charging up again.

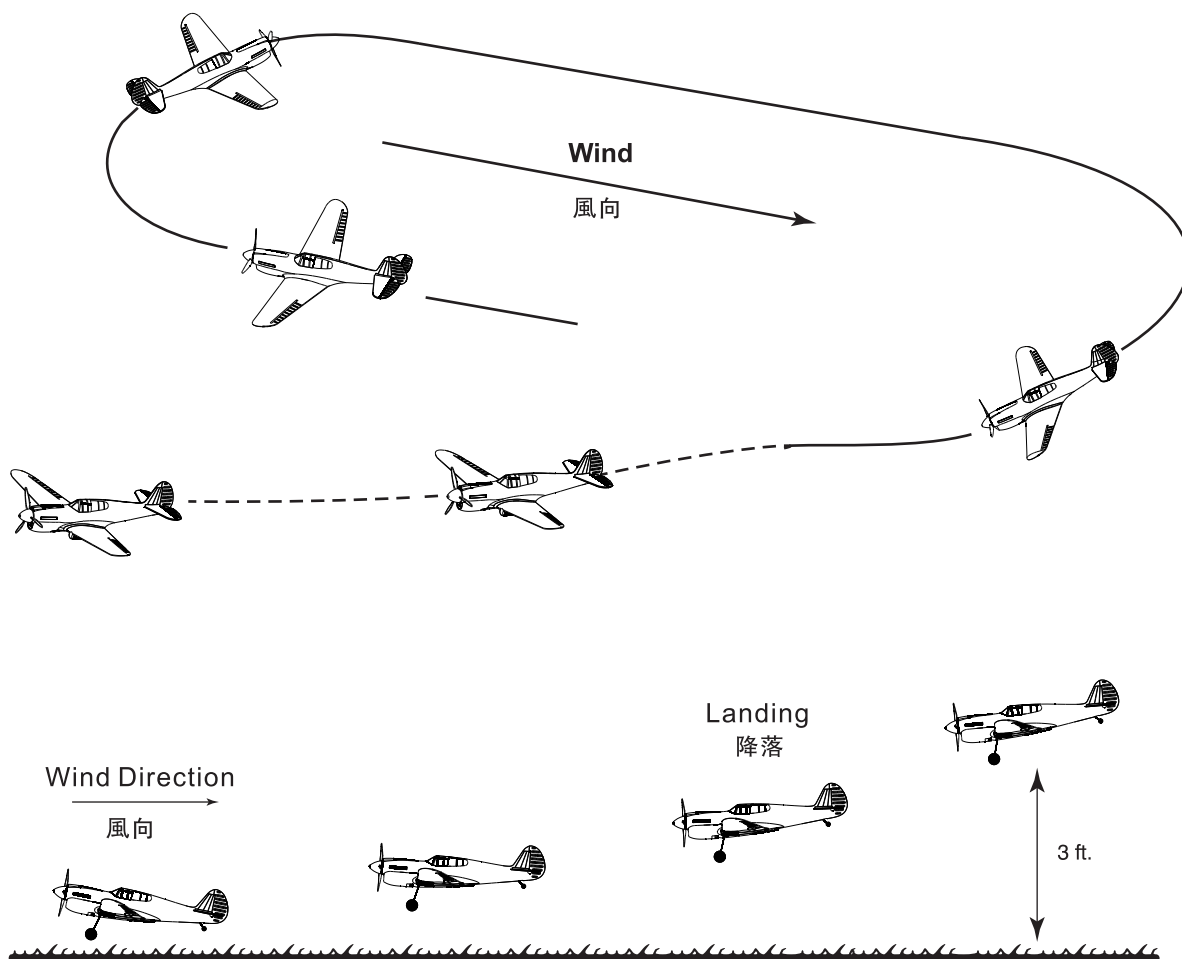
取下電池並待其冷卻後重新充電。

- Check over the plane to make sure nothing loosened.

確保沒有任何零件鬆動。



**Launch firmly into wind straight and level. Do not throw upwards!**  
逆風水平推出。



# RADIO MOVEMENT (Mode II Shown)



## THE DIRECTION OF MOVEMENT (AILERON AND ELEVATOR)

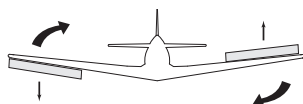
方向升降舵說明

↑ Airplane Movement  
↑ Control Surface

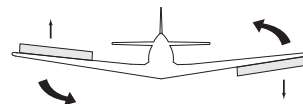
### NEUTRAL



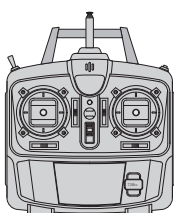
### RIGHT ROLL



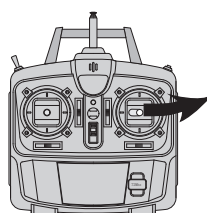
### LEFT ROLL



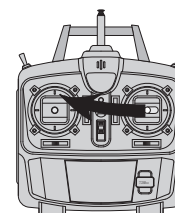
Check the position of aileron and elevator (if these are in neutral).  
檢視副翼,升降舵是否位于中立點



Set the trim in neutral position.  
Set the sticks in neutral position  
將微調和搖杆調整到中立位置

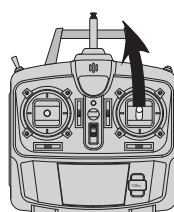
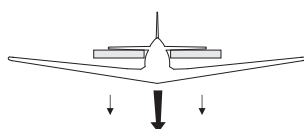


Move the stick to the right.  
搖杆朝右偏擺



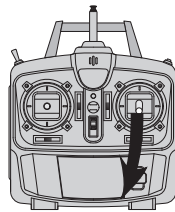
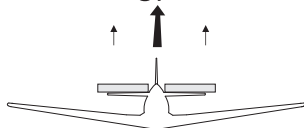
Move the stick to the left.  
搖杆朝左偏擺

### DOWN



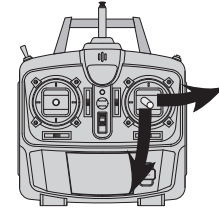
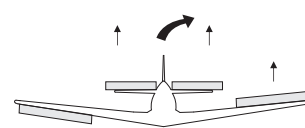
Move the stick up.  
搖杆朝上偏擺

### UP



Move the stick down.  
搖杆朝下偏擺

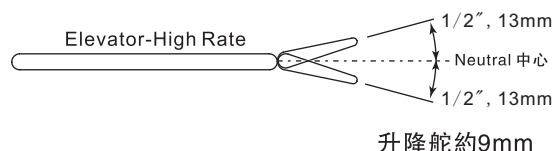
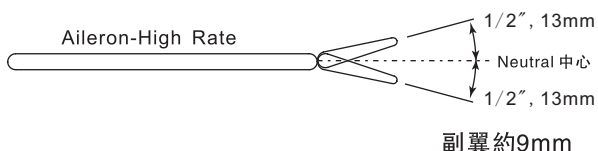
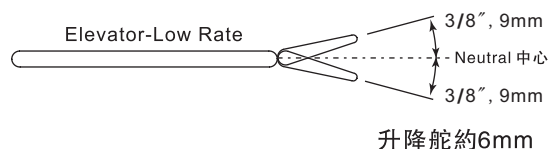
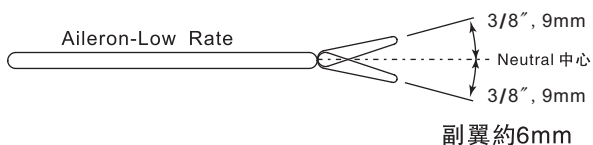
### RIGHT ROLL AND UP



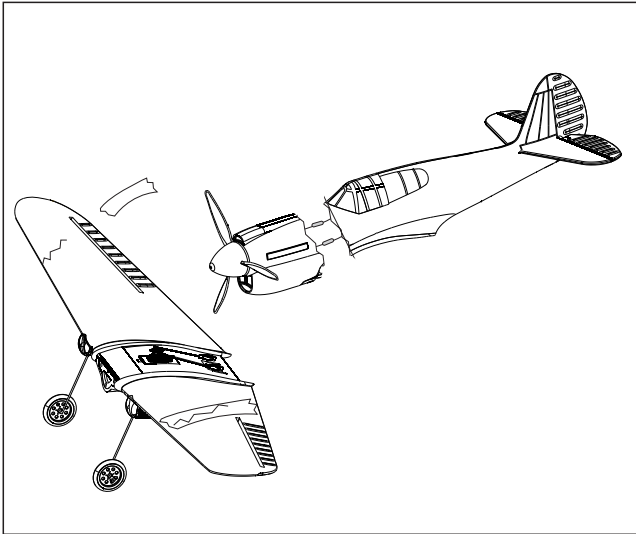
Move the stick down and right.  
搖杆朝右下方偏擺

## Control Throws

Please set up the control throws as indicated drawing for the starting point. After you familiar with its flying characteristics then these control throw can be tailored to fit your flying style. 請根據下圖所示熟悉控制舵量。





**REPAIR 維修**

Crash damage is not covered under the warranty!

If damage occurs, use small amount of furnished 5-min Epoxy to repair broken foam. Clear packing tape will hold the parts together; leave it on patch for added strength. Re-balance the plane after you repaired.

如有墜機造成損壞不在產品保證範圍。

使用內附之環氧樹脂來維修您的愛機，並可用透明膠帶補強，但注意必須重新配重。

**IN CASE OF TROUBLE 問題解決**

1.If motor does not run when Throttle Stick is up

- a.Make sure all the wires are well connected.
- b.Check and follow the manufactures' manual of controller.

油門搖柄上推後，如果馬達並未轉動，先確認接線是否正常或發射機油門正逆轉開關是否反向。請參考遙控器說明書進一步檢視。

2.If the radio is erratic( glitches)

- a.Check that the transmitter and receiver antennas are extended to their full length.
- b.Make sure the transmitter batteries are fresh.
- c.Make sure no one else is operation on your channel ( frequency) in the immediate vicinity.

如果伺服機不正常抖動，請檢視發射機電池是否有電並觀察是否有同頻率的遙控器在使用。

3.If the plane does not fly properly

- a.Make sure you are being gentle with the control inputs.
- b.Make sure the plane is balanced properly.
- c.Make sure all the wing and tail surfaces are flat, true, and properly attached and aligned.

如果飛機飛行不穩定，請確認您是否操控動作量太大或重心位置未調整，並注意您的愛機主翼尾翼角度是否對稱，舵面是否齊平。

If your trouble persists, call authorized dealer for technical help.

經檢視後仍無法改善請就近向其他玩家或向購買之模型店家請教。

**CONCLUSION 结语**

To defeat the laws of gravity and take to the wing is both challenging and thrilling. We hope you enjoy the R/C flight and make it your hobby for a lifetime. Please let Thunder Tiger be your chosen brand, no matter what direction you progress.

戰勝地心引力是一種挑戰也是令人亢奮的事情，衷心祝您享受遙控飛行的樂趣並使遙控飛行運動成為您終身之嗜好。讓雷虎成為您的最佳選擇。



